

1641

RAW SEQUENCE LISTING DATE: 05/15/2000 PATENT APPLICATION: US/09/252,691B TIME: 11:54:25

Input Set : D:\Ecloacae.pto

Output Set: N:\CRF3\05152000\1252691B.raw



```
4 <110> APPLICANT: Keith G. Weinstock et al. 6 <120> TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO ENTEROBACTER
             CLOACAE FOR DIAGNOSTICS AND THERAPEUTICS
     9 <130> FILE REFERENCE: 107196.135
                                                                                ENTERED
    11 <140> CURRENT APPLICATION NUMBER: US 09/252,691B
    13 <141> CURRENT FILING DATE: 1999-02-18
    16 <160> NUMBER OF SEQ ID NOS: 11324
    19 <210> SEQ ID NO: 1
    20 <211> LENGTH: 432
    21 <212> TYPE: DNA
    22 <213> ORGANISM: Enterobacter cloacae
    24 <400> SEQUENCE: 1
    25 tgttgtcgcc gtctttctgg atcggcgtcg cctcggtggt ctttgtgtct ctgctggtgt
                                                                          120
    27 tgctccctg ctccttccgg ttgcgctttt tcctgtcggt tttgcttttc cgctcctgcc
                                                                          180
    28 gcgtcctgct ttatattagt cgtggcgctg ttgttctgcc tgcgtttcgt cgtctttccg
                                                                          240
    29 gttcttctct ttggttccgt gtgcctcgcc tggttcctgg tcttcgcttt ccttgtggcg
    30 ctgtggatgg atcagggggt ggtgtcgtgg cttcgtcacg tcttgctggc gccgggaagc
    31 cataaaaacc cggtgacgct ggtgatcacg gggcttatcc tccgtgccat tgtctggtca
    32 gtgatgctgc tg
    34 <210> SEQ ID NO: 2
35 <211> LENGTH: 231
    36 <212> TYPE: DNA
    37 <213> ORGANISM: Enterobacter cloacae
    39 <220> FEATURE:
    40 <221> NAME/KEY: unsure
    41 <222> LOCATION: (217)
    43 <220> FEATURE:
    44 <221> NAME/KEY: unsure
    45 <222> LOCATION: (218)
    47 <400> SEQUENCE: 2
    48 agcaggacgc ggcaggagcg gaaaagcaaa accgacagga aaaagcgcaa ccggaaggag
    50 agcagccaga acaccagcag agacacaaag accaccgagg cgacgccgat ccagaaagac
                                                                          180
50 agcagccaga acaccagcag agaagacgaac cgggachnaa atcgtactta a
                                                                          231
    53 <210> SEQ ID NO: 3
    54 <211> LENGTH: 490
    55 <212> TYPE: DNA
    56 <213> ORGANISM: Enterobacter cloacae
    58 <400> SEQUENCE: 3
    59 ccccaaccag agcgaggece teggeggeae aategecaga gggatggtea atacccagae
                                                                          120
    60 cgqtcaggag gagaagaaag tcggcacgcg caggatcgag cggaagaagc cccccgtcgt
    61 caccggggcg gaggagaagg cgaaaggcca gaacctcgcg ccgaaagcgg agaagagcga
    62 atccggctca ccgaaagaaa gcaggaaggc ggagaaaacg gagcagagca tcggcgagga
    63 ggcggtcaaa acgcgcggca agatccagcg gcagcagatc caggacgggc agaaagcggc
                                                                          300
                                                                          360
    64 cagtcaggtg aacgcgcagc aggcgaacga gatcggcctc ggcaaaccgg aagatttcac
    65 acagatteat caggeegeea ggateggeaa geegeacata acetegeeca eetttaaegt
```

DATE: 05/15/2000 TIME: 11:54:25 RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/252,691B

Input Set : D:\Ecloacae.pto
Output Set: N:\CRF3\05152000\I252691B.raw

70 <211 > LENGTH: 267 71 <212 > TYPE: DNA 72 <213 > ORGANISM: Enterobacter cloacae 74 <400 > SEQUENCE: 4 78 agoagyagya geeggagga aaateggeeta tetytyggea acagcattyg teaggategt 76 cgttteetgt ttaagtacat geeggagetg gagteetact tecactaceg etatetygat 77 gtgagcacec tgaaagaget ggeegeegeeggagateggaacegg aaattttega eggettaca 78 aagcagygga egcaccagge gatggatgac atcegtgagt etgttgegga getggeetac 79 tategegaaa actttattaa getetga 81 <210 > SEQ ID NO: 5 82 <211 > LENGTH: 393 83 <212 > TYPE: DNA 84 <213 > ORGANISM: Enterobacter cloacae 86 <400 > SEQUENCE: 5 77 cetgetacty ceggttatge gagaaggggg gaaaataaca tgageggga egaaaacac 88 ctgatttgga tegatetgga getggeet aatattetga ggacegaaceac eggtgeecaaca tggtecaacat ggaceacae tggtecaaca tgetgeeget aatattetga ggaagggge gacaggatge atggtggace aaegattgee 89 stegecacae tggteacega tgecaacete aatattetga ggagaggggace aaegatgge 90 gtgcaccagt ceggtgaacg egttgaggg atggatgag ggaagaeggag aggaggggg 91 ggeageggge tggtggaacg egttgeegga atggatgag ggaagaeggag ggacegeacaeggagaggagg ggacageacttgg egtteegaggaggagggggg ggacageacttgg ggacaggaggagggg ggacageacttgg egtteegaggaggaggggg ggacagactgggagaggagggggggggg	66 tcaggcgatg atgctcatcg cccctggtct tcacctggcg actggacgga tacgcgcata 67 tgttagttta 69 <210> SEQ ID NO: 4	480 490
72 <413> ORGANISM: Enterobacter cloacae 74 <400> SEQUENCE: 4 75 agcagtgggt gccggcagga aaatcgccta tctgtgggca acagcattgg tcaggatcgt 76 cgtttcctgt ttaagtacat gccggaggtg gagtcctact tccactaccg ctatctggat 77 gtaggaccc tgaaaagagct ggccgccgc tggaaaccgg aaatttcga cggcttcaca 88 aagcagggga cgcaccaggc gatggatgac atccgtgagt ctgttgcgga gctggcgtac 81 <210> SEO ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgagcggga cgaaaacaac 88 ctgatttgga tcgatctgga gatgaccggc cttgatcccg agcggagcc acgatattgag 99 atcgaccacat tggtcaccga tgcaaccat caattattgg cggaaggcc aacgattgc 90 gtgcaccagt ccgatgacca gcttgcgctg atggatgg ggaacgtgcg tacccatac 91 ggcagcgggc tggtggaacg cgttgaggc agcaccttg gcgaccgcga agcggagcg 92 gcgacgcttg aattttgaa gcaagtggtg cagacacctgg gcgaccgca agcgaggcg 93 cagcattggt caggatcgtc gtttcctgtt taa 93 <212> Type: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 ccccccccgt tytcctggca gtggtggtg agcaccttg gcgaccgaa agcgagcg 120 120 accctgggca agctgtcgct gtttcttgt tgggtgggggggggg		
74 <400> SEQUENCE: 4 75 agcagtgggtg geeggeagga aaategeeta tetgtgggaa acageattgg teaggategt 76 egttteetgt ttaagtacat geeggagetg gagteetact tecactaceg etactggat 77 gtgageaceet gaaaggagt ggeegeegeet ggaaacegg aaattttega eggetteaca 78 aagcagggga egacacagge gatggatgac atecgtgagt etgttgegga getggegtac 79 tategegaaa acttattaa getetga 81 <210> SEQ ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cetgetactg eeggttatge gagaagggtg gaaaataaca tgagegegga eacgatage 88 etgatttgga tegategga gatgacege ettgateeg agegegateg eattattgag 89 ategecacac tggteacega tgecaacete aatattetgg eggaaggee acagattgee 80 gtgtacacaat cegategga getggagaggee ageagageeg eacaceteggeggggggagaggaggaggggggggggaggaggaggag		
75 agcagtgggt gccggcagga aaatcgccta tctgtgggca acagcattgg tcaggatcgt 60 76 cgtttcctgt ttaagtacat gccggagttg gagtcctact tccactaccg ctatctggat 120 77 gtgagcacct gtgaaagagct ggccgccgc tggaaaccg aatttttega cggettcaca 180 78 aagcagggga cgcaccaggc gatggatgac atccgtgagt ctgttgcgga gctggcgtac 240 79 tatcgcgaaa actttattaa gctctga 267 81 <210> SEQ ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggttattgc gagaagggtg gaaaataaca tgagcgcga cgaaaacaac 86 ctgatttgga tcgatctgga gatgaccgc cttgatcccg agcgcgatcc acatattgg 90 gtgcaccagt ccgatgacca gcttgcacca tggtcaccga tgccaacct catatttcgg cggaaggcc acagattgcc 120 89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggcc acagattgcc 180 90 gtgcaccagt ccgatgacca gcttgcgctg atggatgag ggaacgtcgc accatacc 240 91 ggcagcgggt ggtggaacg cgttgcgctg atggatgag ggaacgtcgc accatacc 240 92 ggcagcgttg aatttctgaa gcagtgggtg cgggagga aatcgccata ctgtgggcaa 300 93 cagcattggt caggatcgt gtttcctgtt taa 95 <211> SEQ ID NO: 6 94 <211> LENGTH: 675 97 <211> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 ccctcccgc tgtcctggca gtcggtggtg aagacatcg ccaccttct caccacacac 102 accctgggca agcgtgctg cgtttctt gcgctggggg tggcgtata tttcacc 240 103 cgtaccctgc tcattgtcta ccctcccatt ctgagcgag gcggggat gtagaacac 360 107 gagagcgtta taacgatgt gatggggtg tggcgtggat gtagaacac 360 106 tttgccgcct atcttctcaa tccgcgctat tggaggggg acgggggg agcggggat gtagaacac 360 107 gagagcgtta taacgatgct gtagggcct ttggaggggg acggggggg tggcgtta tatcaccc 360 108 catcgtctgc tyaattttaa atccagtcgc tyaatgggga acgggggg acgggggg acggcgggat 48 109 acttacctgg ttcaccacacc gctgacctgt ttggagggg gtagaacaccacca 360 102 gctcgaatg cgctggtac cacccaccccaccaccaccaccaccaccaccaccacc		
76 cgtttcctgt ttaagtacat gccggagetg gagtcetet tecactaceg ctatetggat 77 gtgagcacce tgaaaqaget ggccgccgc tggaaaqccg aaattttega cggcttcaca 180 78 aagcagggag cgacacagg gatggatgac atccgtgagt ctgttgegga gctggcgtac 240 79 tategggaaa actttattaa gctctga 267 81 <210> SEQ ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <2213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggtatgc gagaagggtg gaaaataaca tgagcgcgga cgaaaacaac 88 ctgatttgga tcgatctgga ggtggacgg cttgatccg agcgacagc cattattgag 120 gggacacagt ccgataccga tgccaacctc aatattctgg cggaaggcc aacgattgcc 90 gtgcaccagt ccgatgacag gcttgcgctg atggatgag ggaaagtgg caacgatagc 240 91 ggcagcgggc tggttgaacag cgttgcgctg atggatgag ggaacgtgg daaccatac 240 91 ggcagcgggc tggttgaacg cgttgaggg agcaccatgg ggaacgtgg agcagggac 240 92 gcgacggtg tattcttgaa gcagtgggt cggcaggaa aatcgcctat ctgtgggca 300 32 acgacttggt caggategt gtttcctgtt taa 93 cagaattggt caggategt gtttcctgtt taa 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 ccctcccgc tgtctctggca gtcggtgtg aagacatccg ccaccttctt caccaacac 100 cacctgggca agctgtcgc gttttctt gcgctggggg tgcggtatac cgccacaagg 103 cggacctgca agctgtcgc gttttctt gcgctggggg tcggtatac cgccacaagg 103 cggacctgc tattctcaat tccctccttc tcgacgagag ggctggtatta tttcgtggtg 103 cggacctgc tattctcaat tccctccttc tcgacgagagg gctggcatt tattcacc 240 120 acctgggca agctgttac caccccctc ccctggtgtg cggtgggat gtgctgcacagg 240 120 120 120 120 120 120 120 120 120 12		60
77 gigagcacct igaaagagt ggccgccgc iggaaaccgg aaattttcga cggcttcaca 78 aagcagggga cgcaccaggc gaiggatgac atccgtgagt cigitigegga gctggcgtac 240 240 240 240 240 240 267 267 267 267 267 267 267 267 267 267		
78 aagcaggga cgcaccaggc gatggatgac atccgtgagt ctgttgcgga gctggcgtac 79 tatcgcgaaa actttattaa gctctga 81 <210> SEO ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgagcgcgaa cgaaaacaac 88 ctgatttgga tcgatctgga gatgaccggc cttgatccg agcgcgatcg cattattgag 89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggcc aacgattgcc l80 90 gtgcaccagt ccgatgacac gcttgcgctg atggatgagt gcgacagcgga agcggagcg 91 ggcagcggtc tggtggaacg cgtgaaggcc agcacctgg gcgaccgcga agcggagcg 92 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgcctat ctgtgggcaa 93 cagcattggt caggatcgtc gtttcctgtt taa 93 cagcattggt caggatcgtc gtttcctgtt taa 93 cagcattggt caggatcgtc gtttcctgtt taa 93 cagcattgg cagaagggtg agcaccacac 100 <400> SEQUENCE: 6 101 ccctcccgc tgtcctggca gtcggtggtg aagacatccg caccttct caccaacac 100 <400> SEQUENCE: 6 101 ccctcccgc tgtcctggca gtcggtggtg aagacatccg caccttctt caccaacac 100 <400> SEQUENCE: 6 101 ccctcccgc tgtcctggca gtcgtttctt gcgctggggg tcgcgtatg cgccatcagg 103 cgtaccctgg tcattftcta ccctcccatt ctgagcgag gcgtggatt tattcacc 105 cggcttaaag cgctgttac caccccctcc ccctggtgg gcgtggatt tattcaccc 106 tttgccgcct atcttctcaa tcagcgctat ggcaggggg acggtgggt tgcgctggc 106 tttgccgcct atcttctcaa tcagcgctat ggcaggggg acggtgggt gcgctgatt 109 actccqaatg cgctggtgtc gctgtcttt gggtggcat tattcaccc 100 gctccagatg cgctggtgtc ttcaccagg ctgttttttggggg gcgtacattac gccgcatac 100 scctcgaatg cgctggtgtc ttcaccagg ctgtttttt gggttgca tgccttggt 101 gctccqaatg cgctggctt ttcaccgg ctgttttt ggttgcat tgccatcgtg 102 atcacctgg gctggtggtgt ttccctcagg ctgttttt ggttgcat tgccatcgtg 103 ctaccttgg tcgctggct gctgtctttt ggtttgcat tgccatcgtg 104 cacctgaatg cgctggtgtct ttcaccagg ctgtcttt gtgttgcat tgccatcgtg 107 gaagacgtta cgctggctt ttcaccagg ctgtcttt gtgttgcat tgccatcgtg 108 catcgtcgc gctgaataa 109 cacctgaatg cgctgaataa 100 cacctgaatg cgctgaataa 100 cacctgaatg cacccccccccccccccccccccccccc		
79 tatcgcgaaa actttattaa gctctga 81 <210> SEQ ID NO: 5 82 <211> LENGTH: 393 83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgaggcgga cgaaaacaac 88 ctgatttgga tcgatctgga gatgaccggc cttgatccg agcgcgatcg cattattgag 90 gtgcaccagt ccgatgacca gcttgcgctg atggatggag gaacgtgcg ggaaggcc aacgattgc 91 ggcagcgggc tggtggaacg cgttgagca gcttgagcag gatggaggag ggaggaggag ggaggggagg		
81 <210 SEQ ID NO: 5 82 <211 > LENGTH: 393 83 <212 TYPE: DNA 84 <213 > ORGANISM: Enterobacter cloacae 86 <400 > SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgagcgcgac cattattgag 89 atcgccacac tggtcaccga tgcaacctc aatattctgg cggaaggcc cattattgag 89 atcgccacac tggtcaccga tgcaacctc aatattctgg cggaaggcc aacgatgcc 180 90 gtgcaccact tggtcaccga tgcaagcc aggatgcg taggtagtg gagaggtgc taggagggct ggggaggcc ggtgaaggcc aggaggctg gggagggctgg cggaaggcc aggaggctg gggaggggc ggtgagggc ggtgagggc gggagggct gggagggct ggtggaggc ggtgagggc aggagggctg gggaggggct ggtggaggc ggtgagggc aggagggctg gggaggggct ggtggaggc ggtgagggc aggaggggagg		
83 <212> TYPE: DNA 84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctsctactg ccggttatgc gagaagggtg gaaaataaca tgagcgcgga cgaaaacaac 88 ctgatttgga tcgatctgga gatgaccggc cttgatcccg agcgcgatcg cattattgag 89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggcc aacgatgcc 180 90 gtgcaccagt ccgatgacca gcttgcgtg atggatggg ggaacgtgcg tacccatacc 240 91 ggcagcgggc tggtggaacg cgtgaaggcc agcacctgg gcgaccgcga agcggagctg 92 gcgacgcttg aatttctgaa gcagtggtg ccggcaggaa aatcgcctat ctgtgggcaa 93 cagcattggt caggatcgtc gtttcctgtt taa 93 cagcattggt caggatcgtc gtttcctgtt taa 94 caggattggt caggatcgtc gttcctgtt taa 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <2113> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttct caccaacatc 102 accctgggca agctftcgt gctfttctt gcgctgggg tggctgttaa tttcgtggg 103 cgtaccctgc tcattgtca ccctcccatt ctgagcgatg ggctgttaa tttcgtgggt 104 atgcagacce tgttctacat tcccttctc ctgattgggg gcgtgcatt attcatccc 105 cggcttaaag cgctffttac caccccccc cctgfgtgg cgtgggtg tggcgtggc 106 tttgccgcct atcttctcaa tcagcgctat ggcagggg acggtggt ttgcgctggc 107 gagagcgtta taacgatgct gatgggctg tggatgtga acggtggtgt ctgccttggc 108 catcgtctgc tgaattttaa atccagtcg gtacctatt tcgttaatgc ttcgctttt 109 actcacatg tcacatcc gctgacgtg ttttcgggg cgtacatat cgctgcttt 109 actcacatg tcacatcc gctgacgtt ttttcgggg cgtacatat gccccttgg 111 ttgtagaaa tccacctcg gatccgctt tttggtttc tggttggct ttccacgtg 112 ttgtaaagcgg gataa 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
84 <213> ORGANISM: Enterobacter cloacae 86 <400> SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgagcggga cgaaaacaac 60 88 ctgatttgga tcgattctga gatgaccggc cttgatcccg agcgcgatcg cattattgag 120 89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggcc aacgattgcc 180 90 gtgcaccagt ccgatgacca gcttgcgctg atggatgggt gacacgacgc acccatacc 240 91 ggcagcgggc tggtggaacg cgtgaggc agcacctcgg gcgaccgcga agcgagctg 300 92 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgcctat ctgtgggcaa 360 93 cagcattggt caggatcgtc gtttcctgtt taa 393 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatcg ccaccttct caccaacatc 60 102 accctgggca agctgtcgct gctgtttctt ggcgtgggg tcgggtatg cgcatcagg 120 103 cgtaccctg tcattgtcta ccctcccatt ctgagcgatg ggctgttaa tttcgtggtg 180 104 atgcagacc tgttctacat tcccttcttc ctgattgggg cgctggcatt tattcatccc 100 105 cggcttaaag cgctgttac caccccctc ccctggtgg ggtggtgg tggcgtgcc 300 106 tttgccgcct atcttctcaa tcagcgctat ggcagcggg acggtgggtg tggctggcc 106 107 gagagcgtta taacgatgct gattggcctg tggatggtg acgctggat gtgcgtgcc 108 109 atctacctgg tcgatttta atccaccccc ccctggtgtg cgcgtggat tatgaaaca 360 107 gagagcgtta taacgatgct gattggcctg tggatggtga acgcgtggat gtgcgtgcc 108 109 atctacctgg tcgatttta atccaccccc ccctggtgtg cgcgtggt tcgccttggc 109 108 catcgtctg tgaattttaa atccagtcgc ttggatggtg cgcgcgatt ttcgctgtt 110 109 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggct tcgcttgt 111 11 ttgtatgaaa tccacctcg gatcccatt ttggtttcc tgttcacg caaccctag 660 111 ttgtatgaaa tccacctgg gatcccatt ttggtttcc tgttcacg caaccctag 660 111 ttgtatgaaa tccacctgg gatcccatt ttggtttcc tgttcacg caaccctag 660 112 gttaaagcgg gata 11 110 <212> TypE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 100 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)·	82 <211> LENGTH: 393	
86 <400> SEQUENCE: 5 87 cctgctactg ccggttatgc gagaagggtg gaaaataaca tgagcgcgga cgaaaacaac 60 88 ctgattgga tcgatctgga gagaagggtg cttgatcccg agcggcgatcg cattattgag 120 89 atcgccacac tggtcaccga tgccaaccc aatattctgg cggaaggcc aacgattgcc 180 90 gtgcaccagt ccgatgacca gcttgcgctg atggatgagt ggaacgtgcg tacccatacc 240 91 ggcagcggct tggtggaacg cgtgaaggcc agcacctgg gcgaccgca agcggacgcg 300 92 gcgacgcttg aattctgaa gcagtgggt cggcaggaa aatcgcctat ctgtgggcaa 360 93 cagcattggt caggatcgtc gtttcctgtt taa 393 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 102 accctgggca agctgtcgt gctgttctt gcgctggggg tcgcgtatgc cgccatcagg 120 103 cgtaccctg tcattgtcta ccctcccatt ctgagcgatg gcgcgtatta ttcqtgcgt 180 104 atgcagaccc tgttctacat tcccttctc ctgattgggg gcgcggcatt tattcatcc 240 105 cggcttaaag cgctgtttac cacccctc ccctggtgg gcgcggatgggg tcgcgtggc 300 106 tttgccgcct atcttctcaa tcagcgctat ggcaggggg acggtgggg tcgcgtggc 300 107 gagagcgtta taacgatgct gatgggcct gtggtggga acggtggga tgagaacac 360 107 gagagcgtta taacgatgct gatgggcct gtgatggtga acggtggga tgcgcttgg 200 108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc tcgccttggc 400 109 atctacctgg tcaccatcc gctgacgctg tttttcgggg cgcatatac gccgcatacc 340 101 ttgtagaaa tcaccatcc gctgaccgt ttttcgggg cgtacattac gccgcatacc 340 101 gcctcgaatg cgctggctc tttcaccgg ctggttttt tggttggat tgccatcgt 360 111 ttgatgaaa tcaccctgcg gatcccgctt ttgcgtttc tgttcacag caaacctcag 360 112 gttaaagcgg gataa 360 113 cgttaaagcgg gataa 360 114 cglagaaa tcaccctgc gatcccgatt ttgcgtttc tgttcacag caaacctcag 360 115 c211> LENGTH: 647 116 c212> TYPE: DNA 117 c213> ORGANISM: Enterobacter cloacae 119 c220> FEATURE: 360 119 c220> FEATURE: 360 110 c221> NAME/KEY: unsure 360 111 tgtagaaccc tgtgctttc unsure 360 112 cgtaaagcggg gataa 360 113 cgtaacctgt 360 114 cgtagaaccc 460 115 cgtaaagcgatgaaccc 460 116 cgtagaaccc 460 117 cgtagaaccc 460 118 cgtagaaccc 460 119 cgtagaaccc 460 119 cgtagaaccc 460	••	
87 cctgetactg ccggttatgc gagaagggtg gaaaataaca tgagcgcga cgaaaacac 88 ctgatttgga tcgatctgg atgaccggc cttgatccc agcgcgatcg cattattgag 120 89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggccc aacgatgcc 180 90 gtgcaaccat ccgatgacca gcttgcgctg atgatgagt gagaacgtgcg tacccatacc 240 91 ggcagcggc tggtggaacg cgtgaaggcc agcaccctgg gcgaccgcga agcggagctg 300 92 gcgacgttg aatttctgaa gcagtggtg ccggcaggaa aatcgcctat ctgtgggcaa 360 93 cagcattggt caggatcgc gtttcctgtt taa 393 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggttgtt gcgctgggggggggg		
88 ctgatttgga tcgatctgga gatgaccgg cttgatcccg agcgcgatcg cattattgag 89 atcgccacac tggtcaccga tgccaacct aatattctgg cggaaggcc aacgattgcc 90 gtgcaccagt ccgatgacca gcttgcgctg atggatgatg ggaacgtgg tacccatacc 91 ggcagcggt tggtggaacg cgtgaaggcc agcacctgg ggaacgcgca agcgaggcg 92 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgcctat ctgtgggcaa 93 cagcattggt caggatcgtc gtttcctgtt taa 95 <210		60
89 atcgccacac tggtcaccga tgccaacctc aatattctgg cggaaggcc aacgattgc 240 ggcaccagt ccgatgacca gcttgcgctg atggatgagt ggaacgtgg tacccatacc 240 ggcacgcggg tggtggaacg cgtgaaggcc agcaccctgg gcgacgcga agcggagctg 300 gcgacgcttg aattctgaa gcagtggggt ccggcaggaa aatcgcctat ctgtgggcaa 360 gcgacgcttg caggatcgtc gtttcctgtt taa 393 secally		
90 gtgcaccagt ccgatgacca gcttgcgctg atggatgagt ggaacgtgcg tacccatacc 240 ggcacgcggg tagtggaacg cgtgaaaggcc agcacctgg gcgaccgcga agcggagctg 300 300 32 cagcattggt caggatcgt gtttcctgtt taa 360 32 cagcattggt caggatcgt gtttcctgtt taa 393 393 393 393 393 393 395 <210 > SEQ ID NO: 6 396 <211 > LENGTH: 675 397 <212 > TYPE: DNA 398 <213 > ORGANISM: Enterobacter cloacae 393 393 393 393 393 393 393 393 393 39		
91 ggcagcgggc tggtggaacg cgtgaaggcc agcaccctgg gcgaccgcga agcggagctg 92 gcgacgcttg aatttctgaa gcagtgggtg ccggcaggaa aatcgcctat ctgtgggcaa 360 37 cagcattggt caggatcgtc gtttcctgtt taa 37 cagcattggt caggatcgtc gtttcctgtt taa 38 cagcattggt caggatcgtc gtttcctgtt taa 39 cagcattggt caggatcgtc gttgttctgtcgtcgtcgtcgtcgtgtgaagacatccg ccaccttctt caccaacatc 39 cacctgggca agctgtcgct gctgtttctt gcgctggggg tcgcgtatgc cgccatcagg 120 39 cacctgggca agctgtcgct gctgtttctt gcgctggggg tcgcgtatgc cgccatcagg 120 39 cacctgggca agctgtcgct gctgtttctt gcgctggggg gcgtgtttaa tttcgtggtg 180 39 cacctgggca agctgttcaccattcccatt ctgagcgatg gcgtgttaa tttcgtggtg 180 30 cagcttaaag cgctgtttac caccccctc cctggttgt gcgtgggtgc tgcgctggcc 240 30 cggcttaaag cgctgtttac caccccctcc cctggttgt gcgtgggtgc tgcgctggcc 300 30 cagagcgtta taacgatgct gatgggcctg tggatggga acggtggat gtatgaaaca 360 30 cagagcgtta taaccatcc gctgacgctg ttttcgggg gatgggtgc tgcccttggc 420 30 catcgtctgc tgaattttaa atccagtcg gtcacctatt tcgttaatgc ttcgccttggc 420 30 actcgcatgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 540 30 actcgcatgg tcaccatcc gctgacgctg tttttcgggg cgtacatac gccgcatatc 540 30 actcgcatgg gataa 10 cacctgg gatccgctttt tggttggcat tgccatcgtg 600 30 cgctcgaatg cgctgggtt cttcaccggc ctggtttcc tggttccatcgtg 600 30 cgctcgaatg cgctgggtt cttcaccatcc gctggtttcc tggttccatcgtg 600 30 cgctgaatgcgcgggggggataa 10 cacctgggcgtggggggatgataaccatcag 660 30 cacctggcggggggggggggggggggggggggggggggg		
92 gcgacgcttg aatttetgaa gcagtggtg ccggcaggaa aatcgcctat ctgtgggcaa 3360 93 cagcattggt caggatcgtc gtttcctgtt taa 95 <210> SEQ ID NO: 6 96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 102 accctgggca agctgtcgct gctgttctt gcgctggggg tcgcgtatgc cgccatcagg 103 cgtaccctgc tcattgtcta ccctcccatt ctgagcgatg ggctgtttaa tttcgtggtg 104 atgcagaccc tgttctacat tcccttcttc ctgattgggg cgctggcatt tattcatcc 105 cggcttaaag cgctgtttac caccccctc ccctggtgtg cggtgggtg tcgcgtggc 106 tttgccgcct atcttctcaa tcagcgctat ggcagcggg accgtggat gtatgaaca 107 gagagcgtta taacgatgct gatgggcctg tggatggtga acctggtgt tcgccttggc 108 catcgtctgc tgaattttaa atccagtcg gtaccctatt tcgttaatg tcccttgt 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatac 110 gcctcgaatg cgctgggctt cttcaccggc ctggttttt tggttggcat tgccatcgt 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttc tgtttaagcaccacc 112 gttaaagcgg gataa 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
93 cagcattggt caggatcgte gtttectgtt taa  95 <210> SEQ ID NO: 6  96 <211> LENGTH: 675  97 <212> TYPE: DNA  98 <213> ORGANISM: Enterobacter cloacae  100 <400> SEQUENCE: 6  101 cccctccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc  102 accctgggca agetgtcgct gctgtttctt gcgctggggg tcgcggtatgc cgccatcagg  103 cgtaccctgc tcattgtcta ccctccatt ctgagcgatg ggctgttaa tttcgtggtg  104 atgcagaccc tgttctacat tcccttctc ctgattggg cgctggcatt tattcatccc  105 cggcttaaag cgctgtttac caccccctc ccctggtgg cggtgggtg tgcgctggcc  106 tttgccgcct atcttctcaa tcagcgctat ggcagcggg accgtggat gtatgaaaca  107 gagagcgtta taacgatgct gagggcctg tggatggtga acggtggtg tgcccttgg  108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc tcgccttgg  109 atctacctgg ttcaccatc gctgacgctg ttttcgggg cgtacattac gccgcatac  110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg  111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttc tgttcaag caaacctcag  112 gttaaagcgg gata  114 <210> SEQ ID NO: 7  115 <211> LENGTH: 647  116 <212> TYPE: DNA  117 <213> ORGANISM: Enterobacter cloacae  119 <220> FEATURE:  120 <221> NAME/KEY: unsure  121 <222> LOCATION: (41)		
96 <211> LENGTH: 675 97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 60 102 accctgggca agctgtcgct gctgttcttt gcgctgggg tcgcgtatgc cgccatcagg 120 103 cgtaccctgc tcattgtcta ccctcccatt ctgagcgatg ggctgttaa tttcgtggtg 180 104 atgcagaccc tgttctacat tcccttcttc ctgattggg cgctggcatt tattcatccc 240 105 cggcttaaag cgctgtttac caccccctc ccctggttgg cggtgggtgt tgcgctggc 106 tttgccgcct atcttctcaa tcagcgctat ggcagcggg acgcggggatg gtatgaaaca 360 107 gagagcgtta taacgatgct gatgggctg tggatggtg tcgccttggc 420 108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc tcgctggtt 480 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 540 110 gcctcgaatg cgctgggctt cttcaccggc ctggtcttt tggttggcat tgccatcgtg 600 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa 660 113 cgttcgattg tggttgsc ftgccgtggtg ftgccacctagt 660 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 100 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		393
97 <212> TYPE: DNA 98 <213> ORGANISM: Enterobacter cloacae 100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 60 102 accctggca agctgtcgct gctgtttctt gcgctggggg tcgcgtatgc cgccatcagg 120 103 cgtaccctgc tcattgtca ccctccatt ctgagcgatg ggctgttaa tttcgtggtg 180 104 atgcagaccc tgttctacat tcccttctc ctgattgggg cgctggcatt tattcatccc 240 105 cggcttaaag cgctgtttac caccccctcc ccctggtgtg cggtgggtg tgcgctggcc 300 106 tttgccgcct atcttctcaa tcagcgctat ggcagcggg acgcgtggat gtatgaaca 360 107 gagagcgtta taacgatgct gatgggcctg tggatggta gtatgaaca 360 108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc tcgctgtt 480 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 110 gcctcgaatg cgctgggct cttcaccggc ctggtcttt tggttggcat tgccatcgtg 420 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgttcc tgttctcagg caaacctcag 660 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgttcc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)	95 <210> SEQ ID NO: 6	
98 <213> ORGANISM: Enterobacter cloacae  100 <400> SEQUENCE: 6  101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 60 102 accctgggca agctgtcgct gctgttctt gcgctggggg tcgcgstatgc cgccatcagg 120 103 cgtaccctgc tcattgtcta ccctcccatt ctgagcgatg ggctgtttaa tttcgtggtg 180 104 atgcagaccc tgttctacat tcccttcttc ctgattgggg cgctggcatt tattcatccc 240 105 cggcttaaag cgctgtttac caccccctcc ccctggtgtg cggtgggtg tgcgctggcc 300 106 tttgccgcct atcttctcaa tcagcgctat ggcagcgggg accgtggat gtatgaaaca 360 107 gagagcgtta taacgatgct gatgggcctg tggatggtga acgtggtgt cgccttggc 420 108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatge tccgctgtt 480 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 100 110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg 600 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 100 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)	96 <211> LENGTH: 675	
100 <400> SEQUENCE: 6 101 cccctcccgc tgtcctggca gtcggtggtg aagacatccg ccaccttctt caccaacatc 102 accctggca agctgtcgct gctgttctt gcgctggggg tcgcgtatgc cgccaacagg 120 103 cgtaccctgc tcattgtcta ccctcccatt ctgagcgatg ggctgttaa tttcgtggtg 180 104 atgcagaccc tgttctacat tcccttcttc ctgattgggg cgctggtata tttcgtggtg 180 105 cggcttaaag cgctgttac cacccctcc cctgattggg cgctggtgt tattcatccc 240 105 cggcttaaag cgctgtttac cacccctcc cctggtgtg cggtgggtgc tgcgctggcc 300 106 tttgccgcct atcttctcaa tcagcgctat ggcagcgggg acgcgtggat gtatgaaaca 360 107 gagagcgtta taacgatgct gatgggcct tggatggtga acgcgtggat gtatgaaaca 360 107 gagagcgtta taacgatgct gatgggcct tggatggtga acgcgtggat gtatgaaaca 360 109 actacctgg tgaatttaa atccagtcgc gtcacctatt tcgttaatgc ttcgctgtt 480 109 atctacctgg ttcaccatc gctgacctgt ttttcgggg cgtacattac gccgcatatc 540 110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg 600 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa		
101 cccctcccc tgtcctggca gtcggtggtg aagacatccg ccaccttett caccaacatc 102 accctggca agctgtcgct gctgttctt gcgctggggg tcgcgtatgc cgccatcagg 120 103 cgtacctgc tcattgtcta ccctcccatt ctgagcgatg ggctgttaa tttcgtggtg 104 atgcagaccc tgttctacat tcccttctc ctgattggg cgctggcatt tattcatccc 105 cggcttaaag cgctgtttac caccccctc ccctggtgtg cggtgggatg tattcatcatcc 106 tttgccgcct atcttctcaa tcagcgctat ggcagcgggg acgcgtggat gtatgaaaca 107 gagagcgtta taacgatgct gatgggcctg tggatggta acgcgtggat gtatgaaaca 108 catcgtctgc tgaatttaa atccagtcgc gtacctatt tcgttaatgc tcgccttggc 109 atctacctgg ttcaccatcc gctgacgtg tttttcgggg cgtacattac gccgcttt 109 actcgaatg cgctgggctt cttcaccggc ctggtcttt tggttggcat tgccatcgt 110 gcctcgaatg cgctgggctt cttcaccggc ctggtcttt tggttggcat tgccatcgt 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 112 cgtaaagcgg gataa 1130 115 c211> LENGTH: 647 116 c212> TYPE: DNA 117 c213> ORCANISM: Enterobacter cloacae 119 c220> FEATURE: 120 c221> NAME/KEY: unsure 121 c222> LOCATION: (41)	• • • • • • • • • • • • • • • • • • • •	
102 accetgggca agetgteget getgtttett gegetgggg tegegtatge egecateagg 120 103 egtaceetge teattgteta eceteceatt etgagegatg ggetgttaa tittegtggg 180 104 atgeagacee tgttetacat teeettette etgattgggg egetggeatt tatteateee 240 105 eggettaaag egetgtttae eaceceetee eeetggtggg eggtggggggg tegegtggee 300 106 tittgeegeet atetteetaa teagegetat ggeagegggg acgeggggat gtagaaaca 360 107 gagagegtta taacgatget gatgggeetg tggatggta gatgaaaca 360 108 eategtetge tgaattitaa ateeagtege gteacetatt tegitaatge tiegetgge 420 108 eategtetge tgaattitaa ateeagtege gteacetatt tegitaatge tiegetgti 480 109 atetacetgg tieaceatee getgaegetg titttegggg egtacatae geegeatate 540 110 geetegaatg egetggget etteacegge etggtettig tiggitggeat tgeeategg 600 111 tigtatgaaa teeacetgeg gateeeget tiggittee tgiteeteagg eaaaceteag 660 112 gttaaagegg gataa 660 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		60
103 cgtaccetge teattgteta eceteceatt etgagegatg ggetgtttaa titegtggtg 104 atgeagacee tgttetacat teeettete etgattgggg egetggeatt tatteateee 105 eggettaaag egetgtttae eacecetee eeetggtgtg eggtgggtge tgeggtggee 106 titgeegeet atetteteaa teagegetat ggeagegggg aeggegggat gtatgaaaca 107 gagagegtta taaegatget gatgggeetg tggatggtge egecettgge 108 eategtetge tgaattitaa ateeagtege gtaecetat tegitaatge egecettge 109 atetacetgg treaceatee getgaegetg titteegggg egtaecatae geegeatate 100 geetegaatg egetggget etteacegge etggetitt tggitggeat tgeeategtg 111 tigtatgaaa teeacetgeg gateeeget titteeggg egtaecatae geegeatate 110 getegaatg egetggget etteacegge etggitett tggitggeat tgeeategtg 111 tigtatgaaa teeacetgeg gateeeget tigegitee tgiteeagg eaaaceteag 112 gtaaagegg gataa 113 <211> EENGTH: 647 114 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
104 atgcagacc tgttctacat teeettette etgattgggg egetggeatt tatteatece 240 105 eggettaaag egetgtttae eaceceetee eeetggtgtg eggtgggtge tgegetggee 300 106 tttgcegeet atetteeaa teagegetat ggeagegggg acgegtggat gtatgaaca 360 107 gagagegtta taacgatget gatgggeetg tggatggtga acgetgggt egecettge 420 108 categtetge tgaattttaa atccagtege gteacetatt tegttaatge ttegetgtt 480 109 atctacetgg treaceatee getgacgetg tttttegggg egtacatae geegeatate 110 geetegaatg egetggget etteacegge etggtettt tggttggeat tgeeategtg 111 ttgtatgaaa teeacetgeg gatecegett ttgegttee tgtteteagg eaaaceteag 660 112 gttaaagegg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
105 cggcttaaag cgctgtttac cacccctcc cctggtgtg cggtgggtgc tgcgctggcc 300 106 tttgccgcct atcttctaa tcagcgctat ggcagcgggg acgcgtggat gtatgaaaca 360 107 gagagcgtta taacgatgct gatgggcctg tggatggtga acgcgtggat gtatgaaaca 420 108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc ttcgctgttt 480 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 540 110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccaccgg 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
106 titigcogect atcricteaa teagegetat ggcagegggg acgegtggat gtatgaaaca 360 107 gagagegtta taacgatget gatgggectg tggatggtga acgegtggtt egecettgge 420 108 categoretg tgaattttaa atceagtege gteacetatt tegttaatge teegetgtt 109 atctacetgg treacetate getgacetg ttttteeggg egtacattae geogeatate 110 gectegaatg egetgggett etteacegge etggtettg tggttggeat tgecategtg 111 ttgtatgaaa teeacetgeg gatecegett ttgegtttee tgtteteagg caaaceteag 660 112 gttaaagegg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		300
108 catcgtctgc tgaattttaa atccagtcgc gtcacctatt tcgttaatgc ttcgctgttt 109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgttcc tgttctcagg caaacctcag 112 gttaaagcgg gataa 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		360
109 atctacctgg ttcaccatcc gctgacgctg tttttcgggg cgtacattac gccgcatatc 110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 112 gttaaagcgg gataa 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
110 gcctcgaatg cgctgggctt cttcaccggc ctggtctttg tggttggcat tgccatcgtg 111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 112 gttaaagcgg gataa 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
111 ttgtatgaaa tccacctgcg gatcccgctt ttgcgtttcc tgttctcagg caaacctcag 660 112 gttaaagcgg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
112 gttaaagcgg gataa 675 114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
114 <210> SEQ ID NO: 7 115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
115 <211> LENGTH: 647 116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		0/3
116 <212> TYPE: DNA 117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
117 <213> ORGANISM: Enterobacter cloacae 119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
119 <220> FEATURE: 120 <221> NAME/KEY: unsure 121 <222> LOCATION: (41)		
121 <222> LOCATION: (41)		
	120 <221> NAME/KEY: unsure	
123 <220> FEATURE:		
	123 <220> FEATURE:	

RAW SEQUENCE LISTING DATE: 05/15/2000 PATENT APPLICATION: US/09/252,691B TIME: 11:54:25

Input Set : D:\Ecloacae.pto

Output Set: N:\CRF3\05152000\1252691B.raw

```
124 <221> NAME/KEY: unsure
     125 <222> LOCATION: (54)
     127 <220> FEATURE:
     128 <221> NAME/KEY: unsure
     129 <222> LOCATION: (60)
    131 <400> SEQUENCE: 7
132 ggcggttcgt tccagtggga ttaccggtaa ccgacgtttt nttcgcggca gttnttctcn/
                                                                               60
     133 ttctccctgt gggatacatt ggtgaaaaag gcgggttgca gagggtgttt atgagaccgc
                                                                               120
                                                                               180
     134 aaatcgacgt tattcatggc gatatcacga cggtgcgcgt tgacgtgatc gtcaacgcag
     135 ccaatteete eetgatgggt ggtggegggg tggaeggtge catteaeegg geegeaggee
                                                                               240
     136 ctcaactcct tgaagcatgc aaaaccgtgc gtcagcagca gggagagtgc ccgccggggc
                                                                               300
     137 atgetgttat taegettgeg ggegatetee eggecaaage ggtgateeat accgttggae
                                                                               360
     138 ccgtctggca cggtggcgac cgccatgagg ctgagattct ggagcaggcg tatcgtaact
                                                                               420
     139 gcatgcggct tgcggcggat aacgggtata agaccatggc gttccccgcc attagcaccg
                                                                               480
     140 gggtgttcgg ctatccaaag gaagcggcag ctacgatcgc cgtgaatacc gtttatcaat
                                                                               540
     141 accttteect caaacccatg ceggaaaaag teattttgt etgtttegat gageaeaceg
                                                                               600
     142 ccgacctgta tcagcggatt ttgaccgcgc gcagccaggc attttga
                                                                               647
     144 <210> SEQ ID NO: 8
     145 <211> LENGTH: 924
     146 <212> TYPE: DNA
     147 <213> ORGANISM: Enterobacter cloacae
     149 <400> SEQUENCE: 8
     150 teccectgea ttattgecae getattegeg cetgaacega gegatgtgat teegttteee
                                                                               60
     151 cgctcgctgg agcaggccgt cgccgcaccg ttccgggatt tctttggtcg caataatgcc
                                                                               120
     152 tggctgatcc tgctgctgat tgtcctttat aagctcggcg acgctttcgc catgagtctg
                                                                               180
     153 accaccacct teetgateeg eggegteggg tttgatgegg gggaggtegg egtggtgaac
                                                                               240
     154 aaaaccctgg ggctgtttgc cacgatcgtc ggcgcgctgt acggcggcgt attgatgcag
                                                                               300
     155 cgtctgtcgc tgttccgtgc tctgctgatc ttcggcatcc ttcagggcgc ttcgaatgcc
                                                                               360
                                                                               420
     156 qqttactqqc tqctqtcqat caccqacaaq catatqatca qcatqqcqac qqcqqtattc
                                                                               480
     157 tttgaaaatc tgtgcggagg tatgggcaca gcggcatttg tcgccctgct gatgacgctg
                                                                               540
     158 tgcaataagt catttteege eacceagttt geeetgetet etgeeetete ageegteggg
                                                                               600
     159 egegtgtaeg taggteeegt egegggetgg tttgttgaag eceaeggetg geegacattt
     160 tatetettet eggtggtgge ggetgtgeeg gggattttat tgttgetggt etgtegeeag
                                                                               660
     161 acgetggaat atacceageg gaeggaacae tteatgeege geaeggaata teaggetgee
                                                                               720
     162 taccggtttg ccctgcgtct gctgatggca ggttgtcttg cgctggtagt gtggctcgcg
                                                                               780
     163 gtactcatta tcaatgcgac gaccaccttg tcgcttcctt ttgaaaccca gctgcttgat
                                                                               840
     164 gcaggcgtgt ttctcgccat cgtgggtatc ctgaccggtg ggatgctgga tttcatgtca
                                                                               900
     165 ctgcggaaaa cgcagatgac atga
                                                                               924
    167 <210> SEQ ID NO: 9
    168 <211> LENGTH: 1005
    169 <212> TYPE: DNA
    170 <213> ORGANISM: Enterobacter cloacae
    172 <220> FEATURE:
    173 <221> NAME/KEY: unsure
    174 <222> LOCATION: (997)
    176 <400> SEQUENCE: 9
    177 atggctaatt atactgtaga tgaatttatt attcagctag gctttaacga aaccgtttca
                                                                               60
    178 aagaatette aaaagetega aageagaaet ettaaagtag etgaaegaat tgaaaagaat
                                                                               120
    179 ctcaaccgtg cattcacacc aaagggtgat tttggaagag taatttcttc agcaaataac
                                                                               180
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/252,691B

DATE: 05/15/2000 TIME: 11:54:25

Input Set : D:\Ecloacae.pto
Output Set: N:\CRF3\05152000\I252691B.raw

	(1252051B.1dw	
	180 gcatcaaaac aaattaaccg tgcatttto correct	
	180 gcatcaaaac aaattaaccg tgcattttca aagagcatga attttgatga agctggtaaa 181 tcctctgtga aatctgtaga gaatgctgct aaggcttctg caaaacgcat taaggatatg 182 tatcaggacg cttacggggc taaaggaaaa ggccgatag	240
	182 tatcaggacg cttacggggc tagaggett daggettetg caaaacgcat taaggatatg	300
	183 ccacaaggca gaggetgaaa thingsdadd ggccgctcaa atccaccagc agccggaaag	360
	184 cagttetatt cgaatetgag and selected teegtteact egetaatact	420
	185 gcgatgaaat tacgccagaa gattaasta gagggtatgg gttcaactgg acaagcaagg	480
	186 gccagttrga atcasttogg tryagagard atgetttage caatecetca	540
	186 gccagtttga atcaattccg tttagcatta cgtgcagcca ctgatagcg gtctaaatgg 187 gcttctcaga accgtaaaca ggtatctaat gcagaagggt atcaatggcg gtctaaatgg 188 ctggtaagcg tttcagcggc gttatacggg acatttgaag accgtagct cttcggtcgt	600
	188 ctggtaaggg tttgaagg ggtatctaat gcagaagggt tatcaagctc cttcggtcgt	660
	188 ctggtaageg tttcagegge gttataaggg acattgaag ccgtccgtaa ggtggttgaa acaggtgtag cccgtgaagg tgggatgt tetrapag ccgtccgtaa ggtggttgaa	720
	189 acaggigtag cocgigaagg tgigaatoto totgotgaag otgotottaa ggiggtigaa 190 aaaaatgota agacattogo ggotoggita totgotgaag otgotottaa agggoaatog	780
	190 aaaaatgcta agacattege ggeteagtte tetgetgaag etgtetttaa agggcaateg 191 acettgaaac agtacaetgg etttgetgeg ggtroteagte teggacagg tgteaetgag	840
~1/	. 191 accttgaaac agtacactgg ctttgctgcg ggtcaagt tcgacaaa tcggacaggg tgtcactgag 192 acacaggact tctataagaa tgctgctgta ttcgttagg attcgttagg ctatcagggt	
$\mathcal{I}(\mathcal{L}_{\mathbf{r}})$	192 acacaggact totataagaa tgctgctgta ttcgtgggggta attcgttagg ctatcagggt > 193 cagcgtacag gcatcatgat tttcaccagg ctggggggta ttcgtgggct tgatgctgaa	900
,,,	> 193 cagegtacag geateatgat tyetgetgta tteggtegta ttegtggget tgatgetgaa 195 <210> SEO ID NO. 10	960
		1005
	196 <211> LENGTH: 1170	
	197 <212> TYPE: DNA	
	198 <213> ORGANISM: Enterobacter cloacae	
	200 (400) SECUENCE: 10	
	201 aacaagctaa atteeggeat aagacgagtt ttaacgggeg tatttaaagt gataatcata 202 agatatetgg ttegggagac getgaaggge caactggeg	
	202 agatatotgg ttcggggagac getgaagagc caactggcga tectetttat ceteettetg 203 atettitet gtcagaaget getgaagate etcgggga tectetttat ceteettetg	60
	203 atcttttct gtcagaaget ggtcaggate etcggeggg eggttgatgg egaaatecea 204 acgaatetgg tgettteeet getcaggate ggggggg eggttgatgg egaaatecea	120
	204 acgaatotgg tgctttccct gctcgggctt gcggtgacgg cggttgatgg cgaaatccca 205 ccgttaagcc tgttccttgg tctgctgatg acastrost aaatggcgca gcttatcctg	180
	205 ccgttaagcc tgttccttgg tctgctgatg accctgggta agctctatac cgaaagtgaa 206 atcaccgtga tgcatgcctg cggctragt agccctggta agctctatac cgaaagtgaa	240
	206 atcaccgtga tgcatgcctg cggcctcagt aaagccgtaa tggtaaaagc agccatggtg ctggcgctgt ttacggggat tgttgcggg attacacgtaa tggtaaaagc agccatggtg	300
	207 ctggcgctgt ttacgggcat tgttgccgcg gttaacgtca tgtggggggg gccgacctcc 208 tctcgtcatc aggatgaggt gctggcggaa ccaanacgtca tgtgggggg gccgacctcc	360
	208 tetegteate aggatgaggt getggeggaa gcaaaageta tgtgggeggg geegacetee 209 gegeagggge agttecagga gggacggaa gcaaaageta accegggget ggeggegetg	420
	209 gegeaggge agttccage gegegett	480
	210 gatggcaacc gcttcaatga cgtgtttott ggtaactccg tgctgtttat cgaaagcgtc	540
	210 gatggcaacc gcttcaatga cgtgtttctt gctcaactgc gcccgaaagg taacgctcgg cttctgtgg tggtggcgga ctccggtcag ctgtctcaactgc gcccgaaagg taacgctcgg ctgtcacgctga acaaaggaac gcgtttcgaa ggcaacgctg gtaaagacgg ctctcaggtt	600
	212 gtcacgctga acasagggs contagget ctgtctcagc gtaaagacgg ctctcaggtt	660
	213 accgatttcc aggactacca garactacca ggcacggcta tgctgcgcga cttccgtatt	720
	214 gatactgage agatggatat ggggaratet gtttattagg ccgtcgcgct cgatccaacg	780
	215 gaactgcact ggcgtatcac getattat atgaataceg atacegateg tgegegtget	840
	216 ccqctqaqcq tqqtqaaccc qqqqaarte dccqtatta tqatqqcqct gatqqtqtt	900
	217 ctgtatctgg tgttcttcct gotgaagge cgcgtgctgt cgatgctgcc agcgatgctq	960
	218 attgacccga tgatetggac staggtage tcaaccagg ctaaccggcgg gaaaggaaaa	1020
	219 ctcaacttgt gggacacggt gootst-	1080
	219 ctcaacttgt gggacacggt gcctgtgcgt cgtcttcgtg cccggtttac gccaacgga 220 tcttcaccac ggggtggaaa gaccgcgtcg	1140
	222 <210> SEQ ID NO: 11	1170
	223 <211> LENGTH: 756	
	224 <212> TYPE: DNA	
	225 <213> ORGANISM: Enterobacter cloacae	
	227 <220> FEATURE:	
	228 <221> NAME/KEY: unsure	
	229 <222> LOCATION: (672)	
	231 <400> SEQUENCE: 11	
	232 Cataacaa corress	
	232 cgtgagcgga ccaacgggga caccatgact ctgccctctt ttattaacgc ctcccctgcc	60
•	233 cigcoggoga caggocagto ggotggootg gactacggoo gogogottto gotacgogaa	120
	t 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	120



VERIFICATION SUMMARY
PATENT APPLICATION: US/09/252,691B
DATE: 05/15/2000
TIME: 11:54:26

Input Set : D:\Ecloacae.pto

Output Set: N:\CRF3\05152000\1252691B.raw

L:51 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2 L:51 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2 L:132 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:7 L:132 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7 L:193 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9 L:193 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9 L:243 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:11 L:243 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11 L:271 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:12 L:271 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12 L:556~M:258~W: Mandatory Feature missing, <223> not found for SEQ ID#:14 L:556 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14 L:557 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14 M:340 Repeated in SeqNo=14  $L:572\ M:258\ W:$  Mandatory Feature missing, <223> not found for SEQ ID#:15 L:572 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15 L:606 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:16 L:606 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16  $L:636\ M:258\ W:\ Mandatory\ Feature\ missing,\ <223>\ not\ found\ for\ SEQ\ ID#:17$ L:636 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17 L:665 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:18 L:665 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18 L:719 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:22 L:719 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22 L:811 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:28 L:811 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:28 L:899 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:32 L:899 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:32 L:969 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:36 L:969 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:36 L:1183 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:49 L:1183 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:49 L:1228 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:52 L:1228 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:52 L:1322 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:57 L:1322 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:57 L:1364 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:60 L:1364 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60 L:1418 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:62 L:1418 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:62 L:1453 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:64 L:1453 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:64 L:1572 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72 L:1572 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:72 L:1576 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:72 M:340 Repeated in SeqNo=72  $L:1605\ M:258\ W:$  Mandatory Feature missing, <223> not found for SEQ ID#:74 L:1605 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:74

VERIFICATION SUMMARY DATE: 05/15/2000 PATENT APPLICATION: US/09/252,691B TIME: 11:54:26

Input Set : D:\Ecloacae.pto

Output Set: N:\CRF3\05152000\I252691B.raw

L:1656 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:75 L:1656 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:75 L:1885 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:88 L:1885 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:88 L:2096 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:100 L:2096 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:100 L:2113 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:101 L:2113 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:101  $L:2161\ M:258\ W:$  Mandatory Feature missing, <223> not found for SEQ ID#:102 L:2161 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:102 L:2189 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103 L:2189 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:103 L:2190 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:103 M:340 Repeated in SeqNo=103 L:2363 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:113 L:2363 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:113 L:2557 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:122 L:2557 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:122 L:2652 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127 L:2652 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:127 L:2670 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127 M:340 Repeated in SeqNo=127 L:2671 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:127 L:2822 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:134 L:2822 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:134  $L:2854\ M:258\ W:$  Mandatory Feature missing, <223> not found for SEQ ID#:135 L:2854 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:135 L:2855 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:135 M:340 Repeated in SeqNo=135 L:3068 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:148 L:3068 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:148 L:3091 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:149 L:3091 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:149  $L:3173\ M:258\ W:$  Mandatory Feature missing, <223> not found for SEQ ID#:152 L:3173 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:152 L:3290 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156  $L:3290\ M:340\ W:$  (46) "n" or "Xaa" used: Feature required, for SEQ ID#:156 L:3292 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156 M:340 Repeated in SeqNo=156 L:3293 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156 L:3294 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:156 L:3341 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:158 L:3341 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:158 L:3521 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160 L:3521 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:160 L:3524 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160 M:340 Repeated in SegNo=160 L:3525 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:160 L:3694 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:161 VERIFICATION SUMMARY

DATE: 05/15/2000 TIME: 11:54:26

PATENT APPLICATION: US/09/252,691B

Input Set : D:\Ecloacae.pto
Output Set: N:\CRF3\05152000\I25269lB.raw

M:340 Repeated in SeqNo=161 L:4209 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:189 L:4226 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:190



Creation date: 06-12-2004

Indexing Officer: PPHANOHTHACHAT - PHANYAMOL PHANOHTHACHAT

Team: OIPEBackFileIndexing

Dossier: 09252691

Legal Date: 06-19-2000

Total number of pages: 5

No.	Doccode	Number of pages
1	SRNT	5

Remarks:	
Order of re-scan issued on	